

CURRICULUM VITAE

Susan E. Masta

starting August 2003:

Department of Biology
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Education

- Ph.D. University of Arizona, Tucson
Ecology and Evolutionary Biology, with Dr. Wayne Maddison, 1999
- B.Sc. Michigan State University, East Lansing, Michigan
Zoology, 1982

Research Experience

- 2001-present Collaborator — Genomics of arachnid mitochondria, in the Evolutionary Genomics Dept., with Dr. Jeffrey Boore, DOE Joint Genome Institute, Walnut Creek, CA.
- 1999-2002 Postdoctoral Research Associate — Isolating population genetic forces: test of a method, with Dr. Eric Routman, Dept. of Biology, San Francisco State Univ.
- 1992-1999 Doctoral student — Population genetics of incipient speciation in jumping spiders on the sky islands of southeast Arizona, with Dr. Wayne Maddison, Dept. of Ecology & Evolutionary Biology, Univ. of Arizona.

Teaching Experience

Formal Teaching

- 1999 Adjunct Lecturer — Evolution 335, Dept. of Ecology & Evolutionary Biology, Univ. of Arizona.
- 1993 - 1997 Teaching Assistant — Genetics 320 and Evolution 335, Dept. of Ecology & Evolutionary Biology, Univ. of Arizona.

Fellowships and Grants

- 1998 Graduate College Fellowship, Univ. of Arizona.
- 1997 Grant from the NSF-funded Research Training Group in the Analysis of Biological Diversification, Univ. of Arizona.
- 1995-1998 NSF Doctoral Dissertation Improvement Grant No. DEB9520668. "Population genetics of incipient speciation in two species of jumping spiders (Salticidae: *Habronattus*) on the sky islands of southeast Arizona" with Dr. Wayne Maddison.
- 1995; 1996 Flinn Foundation Fellowships (twice) in Genetics, and research funding.
- 1992-93; 1994-95 Graduate Fellowships (twice), NSF-funded Research Training Group in the Analysis of Biological Diversification, Univ. of Arizona.

Press Coverage of Research

TRENDS in Ecology and Evolution, News and Comment, July 2002, vol. 17, no. 7, p. 304
AAAS Science Update, 22 May 2002 (radio)
BBC World Service, "Science in Action," 4 May 2002 (radio)
ScienceNOW and Academic Press Inscight, 8 April 2002
Canadian Broadcasting System, "Quirks and Quarks," 6 April 2002 (radio)

Seminars and Presentations

Invited Seminars

1997 - 2003 Eleven invited seminars at universities.

Conference Presentations

1996 - 2003 Thirteen presentations at national meetings.

Publications

- Masta, S. E., N. M. Laurent, and E. J. Routman. 2003. Population genetic structure of the toad *Bufo woodhousii*: an empirical assessment of the effects of haplotype extinction on nested cladistic analysis. *Molecular Ecology* 12 (6):1541-1554.
- Masta, S. E., B. K. Sullivan, T. Lamb, and E. J. Routman. 2002. Molecular systematics, hybridization, and phylogeography of the *Bufo americanus* complex in Eastern North America. *Molecular Phylogenetics and Evolution* 24:302-314.
- Masta, S. E. and W. P. Maddison. 2002 Sexual selection driving diversification in jumping spiders. *Proceedings of the National Academy of Sciences*. 99 (7):4442-4447.
- Masta, S. E. 2000. Phylogeography of the jumping spider *Habronattus pugillis* (Araneae: Salticidae): recent vicariance of sky island populations? *Evolution* 54 (5):1699-1711.
- Masta, S. E. 2000. Mitochondrial sequence evolution in spiders: intraspecific variation in tRNAs lacking the TΨC arm. *Molecular Biology and Evolution* 17 (7):1091-1100.
- McDade, L. A., S. E. Masta, M. L. Moody, and E. Waters. 2000. Phylogenetic relationships among Acanthaceae: evidence from two genomes. *Systematic Botany* 25:105-120.
- McDade, L. A., T. F. Daniel, S. E. Masta, K. M. Riley. 2000. Phylogenetic relationships within the tribe Justicieae (Acanthaceae): evidence from molecular sequences, morphology, and cytology. *Annals of the Missouri Botanical Garden* 87: 435-458.

In Review

- Masta, S. E. and J. L. Boore. The complete mitochondrial genome sequence of the spider *Habronattus oregonensis* reveals rearranged and extremely truncated tRNAs. In review.